PROJECT DESCRIPTION GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF AN EXCLUSIVE/PERMISSVE LEFT TURN MOVEMENT FOR SOUTHBOUND US 1 APPROACH, AT THE INTERSECTION OF US 1 AND KNOX ROAD IN PRINCE GEORGE'S COUNTY.

INTERSECTION OPERATION

THIS INTERSECTION WILL OPERATE IN A SEMI- ACTUATED MODE WITH US 1 NORTHBOUND AND SOUTHBOUND LEFT TURN MOVEMENTS OPERATING IN AN EXCLUSIVE/PERMISSIVE PHASE AND THROUGH MOVEMENTS SHALL OPERATE CONCURRENTLY. THE SIDE STREETS

THE EXISTING BASE MOUNTED CABINET SHALL BE RETRO FIT WITH A - (4) FOUR CHANNEL RACK MOUNTED LOOP DETECTOR AMPLIFIERS. THIS WORK SHALL BE COMPLETED BY SHA- TRAFFIC SIGNAL SHOP.

SPECIAL NOTES

1. THE FOLLOWING CONTACT PERSONS FOR DISTRICT #3 ARE AS FOLLOWS:

MR. CHARLIE WATKINS, DISTRICT ENGINEER
PHONE: (301) 513-7300
MR. MAJID SHAKIB, ASSISTANT DISTRICT ENGINEER-TRAFFIC
PHONE: (301) 513-7300
MR. DENNIS MCMAHAN, ASSISTANT DISTRICT ENGINEER-MAINTENANCE
PHONE: (301) 513-7300
MR. AUGIE REBISH, ASSISTANT DISTRICT ENGINEER-UTILITY
PHONE: (310) 513-7300
MR. RICHARD L. DAFF, SR., CHIEF TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630

- MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR UTILIZING THE FOLLOWING STANDARD PLATES FOR TRAFFIC CONTROL: 104.00, -104.30, 104.03-02, 104.13,-02,104.45-02, 104.46-02
- 3. THE CONTRACTOR SHALL CONTACT SHA SIGNAL SHOP, 5 DAYS PRIOR TO THE START OF WORK.

## EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION.

I TEM NO.	QUANTI TY	UNI T	DESCRIPTION
9000	1	EΑ	DETECTOR RACK RETROFIT
9001	1 1 <b>Ø.</b> 5	EA SF	SHEET ALUMINUM SIGNS CONSISTING OF: R10 - 12 ( LEFT TURN YEILD ON GREEN BALL 36" X 42" MAST ARM MOUNT
9002	1	EA	DETECTOR AMPLIFIER RACK MOUNTED FOUR CHANNEL
9004	1	EΑ	DETECTOR RACK POWER SUPPLY
9007	1	EΑ	NEMA LOAD SWITCH

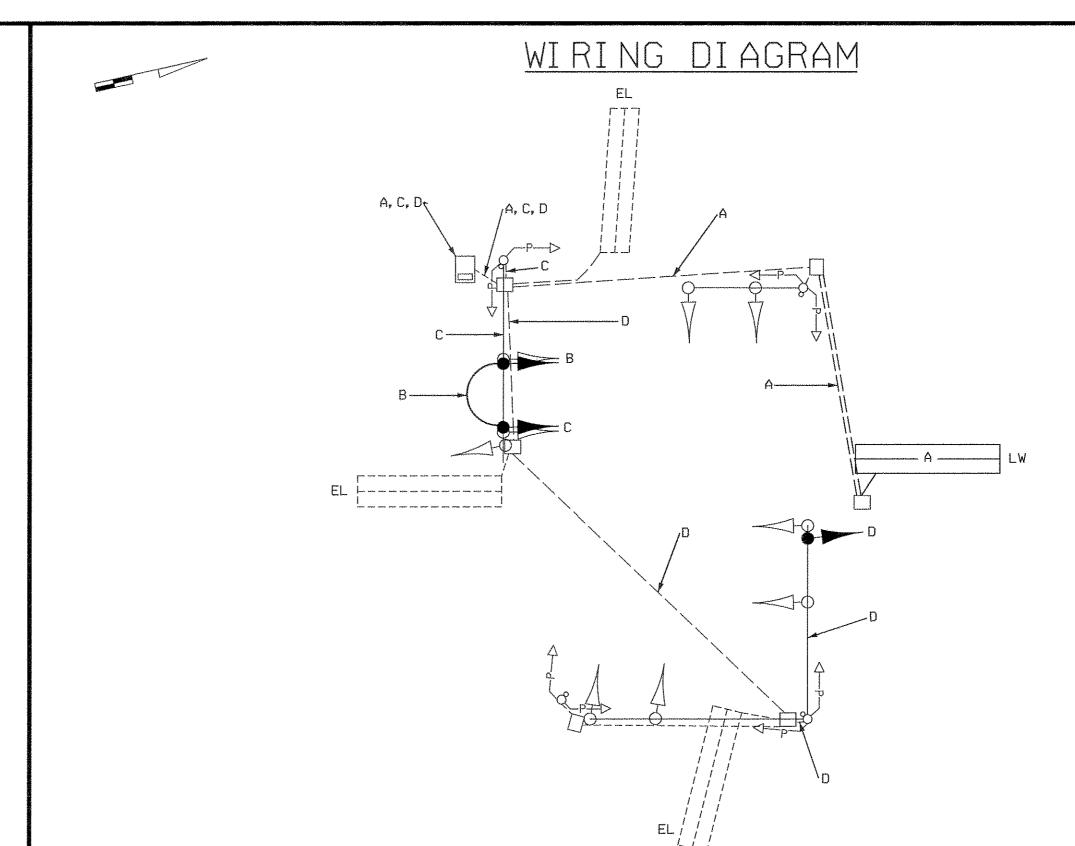
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

I TEM NO.	QUANTI TY	UNI T	DESCRIPTION
1001	1	EA	MAINTENANCE OF TRAFFIC
5005	4Ø	LF	FURNISH AND INSTALL 24 IN. WHITE HEATED APPLIED THERMOPLASTIC PAVEMENT MARKING
5008	4Ø	LF	REMOVAL OF EXISTING PAVEMENT MARKING LINE-ANY WIDTH
8Ø1 Ø	1 Ø	EA	FURNISH AND INSTALL 12 IN. SIGNAL HEAD SECTION
8Ø18	3	EA	FURNISH AND INSTALL 8 IN SIGNAL HEAD SECTION
8Ø37	1	EΑ	REMOVE AND DISPOSE OF EXISTING MATERIAL.
8Ø59	45	LF	FURNISH AND INSTALL 4 IN. SCHEDULED 80 PVC CONDUIT - SLOTTED
8Ø6Ø	6	LF	FURNISH AND INSTALL 1 IN. NON-METALLIC CONDUIT - SLEEVE
8Ø63	1	EA	INSTALL HANDHOLE
8Ø66	10.5	SF	INSTALL OVERHEAD SIGN
8Ø73	1 35	LF	FURNISH AND INSTALL 2-CONDUCTOR, (ALUMINUM SHIELDED) ELECTRICAL CABLE
8Ø76	2Ø	LF	FURNISH AND INSTALL 5-CONDUCTOR, (NO. 14 AWG) ELECTRICAL CABLE
8Ø77	325	LF	FURNISH AND INSTALL 7-CONDUCTOR, (NO. 14 AWG) ELECTRICAL CABLE
8Ø78	43Ø	LF	FURNISH AND INSTALL LOOPWIRE ENCASED IN FLEXIBLE TUBING (NO. 14 AWG) ELECTRICAL CABLE
8Ø79	110	LF	FURNISH AND INSTALL SAWCUT

C. MATERIALS TO BE REMOVED AND RETURNED TO SHA.

ALL EXISTING SIGNAL MATERIAL ARE TO BECOME THE PROPERTY OF THE CONTRACTOR.

NONE



## WIRING KEY

- A 2 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG) ALUMINUM SHIELDED
- B 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- C } 7 CONDUCTOR ELECTRICAL CABLE D (NO. 14 AWG)
- LW LOOP WIRE
- EL EXISTING LOOP

## PHASE CHART

1 2 3 4 5 6 7 8 9 10/11-14/15-18

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<b>6</b> )(6)(6)(6)	$\times$	R R R R R R G G G G G	(x)	(x)	(x)	(		
0000	(b)		(b)	(b)	(6)	(b)		

PHASE 1 AND 5	<b>∢</b> G/R	<b>⊸</b> G/R	R	<b>∢</b> G/R	<b>∢</b> G/R	R	R	R	R	R	DW	DW	<b>A</b>
1 AND 5 CHANGE TO 1 AND 6, 2 AND 5, OR 2 AND 6													
PHASE 1 AND 6	R	R	R	<b>∢</b> G/G	<b>⊸</b> G/G	G	R	R	R	R	DW	DW	
1 AND 6 CHANGE	R	R	R	∢Y/G	<b>⊸</b> Y/G	G	R	R	R	R	DW	DW	V
PHASE 2 AND 5	<b>∢</b> G/G	<b>⊸</b> G/G	G	R	R	R	R	R	R	R	DW	DW	<b>A</b>
2 AND 5 CHANGE	<b>→</b> Y/G	<b>≺</b> Y/G	G	R	R	R	R	R	R	R	DW	DW	
ALTERNATE PHASES 2 AND 6	G	G	G	G	G	G	R	R	R	R	WK	DW	00
PED CLEARANCE	G	G	G	G	G	G	R	R	R	R	FL/DW	DW	
ALTERNATE PHASES 2 AND 6 CHANGE	Y	Υ	Y	Υ	Υ	Y	R	R	R	R	DW	DW	00
PHASE 4 AND 8	R	R	R	R	R	R	G	G	G	G	DW	DW	<b>A</b>
4 AND 8 CHANGE	R	R	R	R	R	R	Υ	Υ	Υ	Υ	DW	DW	₩
ALTERNATE PHASES 4 AND 8	R	R	R	R	R	R	Υ	Υ	Υ	Υ	DW	WK	
PED CLEARANCE	R	R	R	R	R	R	G	G	G	G	DW	FL/DW	
ALTERNATE PHASES 4 AND 8 CHANGE	R	R	R	R	R	R	Υ	Υ	Υ	Υ	DW	DW	<b>♦</b>   <b>♦</b>
FLASHI NG OPERATI ON	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	DARK	DARK	**

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety Office of Traffic & Safety

TRAFFIC ENGINEERING DESIGN DIVISION

GENERAL INFORMATION SHEET US 1 AND KNOX ROAD



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AWN BY: M MEARS	F.A.P. NO.	SHA NO.:	TS NO.	SHEET NO.
CCKED BY:	S.H.A. NO.	23854T2502849	<u>TS-1099G</u>	
ALE: 1" = 20'	COUNTY:	PRINCE GEORGES	T.I.M.S. NO.	
TE: MARCH 30, 2001	LOG MILE:		E 495	20F2